

APPENDIX E

MONITORING WELL BORING LOGS

- E-1 URSGWC MONITORING WELL BORING LOGS**
- E-2 HARDING ESE MONITORING WELL BORING LOGS**
- E-3 2004 BEDROCK MONITORING WELL BORING LOGS**

E-1

URSGWC MONITORING WELL BORING LOGS

BORING LOG						HOLE No. WC1-1S		
1. COMPANY NAME URSGWC Federal Services			2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 2 SHEETS		
3. PROJECT Stratford Army Engine Plant Remedial Investigation			4. LOCATION Stratford, Connecticut					
5. NAME OF DRILLER Steve Butrej			6. MANUFACTURER'S DESIGNATION OF DRILL CME 75 Truck Mounted Drill Rig					
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD split spoons		8. HOLE LOCATION Northwestern section of site, in western section of Area No. 1.				
		4 1/4" ID, 5' augers						
				9. SURFACE ELEVATION + 8.04 feet				
				10. DATE STARTED 3/22/99		11. DATE COMPLETED 3/22/99		
12. OVERBURDEN THICKNESS > 12 feet			15. DEPTH GROUNDWATER ENCOUNTERED 5 feet below ground surface					
13. DEPTH DRILLED INTO ROCK 0			16. DEPTH TO WATER 24 HRS AFTER WELL DEVELOPMENT 5.6 ft bgs					
14. TOTAL DEPTH OF HOLE 12 feet			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)					
18. GEOTECHNICAL SAMPLES N/A		DISTURBED X		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A		
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC		SEMI-VOCs		METALS		
						OTHER (SPECIFY)		
						21. TOTAL CORE RECOVERY N/A		
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		23. NAME OF INSPECTOR Ricardo Colón		
				X				
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h	
0.5	S-1	Asphalt (4")	PID = 0 ppm 9:35			5	12" Recovery	
		Loose, moist, brown, clayey f. SAND Clayey SAND (SC)						3
		FILL LAYER						3
2	S-2	Same as S-1 FILL LAYER	PID = 0 ppm 9:40			3	15" Recovery	
2.5								5
								4
4						4		
4.5	S-3	Med. dense, wet, brown, c-f SAND, some gravel (SP)	PID = 0 ppm 9:45			6	13" Recovery	
		GLACIAL DEPOSITS				10		
						11		
6						12		
6.5	S-4	Med. dense, wet, brown, c-f SAND, trace gravel (SP)	PID = 0 ppm 9:50			5	21" Recovery	
						11		
						10		
8						8		
8.5	S-5	Med. dense, wet, brown-lt. gray, c-f SAND, trace gravel - Poorly Sorted SAND (SP)	PID = 0 ppm 10:00			6	20" Recovery	
		GLACIAL DEPOSITS				9		
								11
10								

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 URSGWC Federal Services
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PROJECT
Stratford Army Engine Plant Remedial Investigation
 Project No. R98104

HOLE No.
WC1-1S

HTW DRILLING LOG						HOLE No. WC1-1S	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 2 OF 2 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
10.5	SS					13	
12		END OF BORING					
14							
16							
18							
20							
22							
24							
26							

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7/25/02

PROJECT
Stratford Army Engine Plant Remedial Investigation
Project No. R98104

HOLE No.
WC1-1S

BORING LOG										HOLE No. WC2-1D	
1. COMPANY NAME URSGWC Federal Services					2. DRILLING SUBCONTRACTOR Connecticut Test Borings					SHEET 1 OF 10 SHEETS	
3. PROJECT Stratford Army Engine Plant Remedial Investigation					4. LOCATION Stratford, Connecticut						
5. NAME OF DRILLER Steve Butrej					6. MANUFACTURER'S DESIGNATION OF DRILL CME 75 Truck Mounted Drill Rig						
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT			2" OD split spoons			8. HOLE LOCATION About 5 ft from Northwest corner of B-58 (Area #2)			9. SURFACE ELEVATION + 6.69 feet		
			4 1/4 " ID, 5-foot augers								
						10. DATE STARTED 4/2/99		11. DATE COMPLETED 4/14/99			
12. OVERBURDEN THICKNESS 150.5 ft					15. DEPTH GROUNDWATER ENCOUNTERED 5 ft below ground surface						
13. DEPTH DRILLED INTO ROCK 0					16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT 4.9 ft bgs						
14. TOTAL DEPTH OF HOLE 150.5 ft					17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)						
18. GEOTECHNICAL SAMPLES N/A			DISTURBED X		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A				
20. SAMPLES FOR CHEMICAL ANALYSIS Samples taken from S-3, S-6, S-14, S-17, S-27, and S-31 for TOC and CEC Analysis.			VOC		SEMI-VOCs		METALS		OTHER (SPECIFY)		21. TOTAL CORE RECOVERY N/A
									TOC, CEC		
22. DISPOSITION OF HOLE			BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		23. NAME OF INSPECTOR Ricardo Colón		
					X						
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c		FIELD SCREENING RESULTS d		GEOTECH SAMPLE OR CORE BOX No. e		ANALYTICAL SAMPLE No. f		BLOW COUNTS g	REMARKS h
0.5	S-1	ASPHALT		PID = 0 ppm 4/2/99 13:20						6	16" Recovery
		Loose to med. dense, moist, brown, f SAND, trace gravel, silt - Poorly graded SAND (SP)									
		FILL LAYER									
2											
2.5	S-2	Loose, moist, brown, fine SAND, some gravel, trace silt - Poorly Graded SAND (SP)		PID = 0 ppm 13:30						7	6" Recovery
4											
4.5	S-3	Loose, moist, grav, m-f SAND, some gravel and silt - Poorly Sorted SAND (SP)		Headspace = 29.6 ppm 13:40				WC2-1D/ S-3 For TOC and CEC Analysis		7	10" Recovery Sample is oil stained and exhibits a diesel-like odor.
6											
6.5	S-4	Loose to med. dense, wet, dk. grav, c-f SAND, some gravel - Poorly Sorted SAND (SP)		Headspace = 5.6 ppm 13:45						7	12" Recovery Sample is oil-stained and exhibits a diesel-like odor.
8											
8.5	S-5	FILL LAYER		Headspace = 1.1 ppm 13:50						2	10" Recovery Sample exhibits a slight petroleum odor.
10											

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PROJECT
Stratford Army Engine Plant Remedial Investigation
 Project No. R98104

HOLE No.
WC2-1D

HTW DRILLING LOG						HOLE No. WC2-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 2 OF 10 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
10.5	S-5					6	
12							
14							
15							
16	S-6	Very soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. SAND - ORGANIC SILT (OL) ESTUARINE SILT	PID = 0 ppm 14:05		WC2-1D/ S-6 For TOC and CEC Analysis	WOR	24" Recovery
17						2	
18							
20							
22	S-7	Very soft, moist, dk. gray, low plasticity, ORGANIC SILT, some f. SAND - ORGANIC SILT (OL)	PID = 0 ppm 14:15			WOR	24" Recovery
24						2	
25							
26	S-8	Very soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. SAND, H2S odor - ORGANIC SILT (OL)	PID = 0 ppm 14:25			WOR	24" Recovery

HTW DRILLING LOG						HOLE No. WC2-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 3 OF 10 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27	S-8	Very soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. SAND, H2S odor - ORGANIC SILT (OL)	PID = 0 ppm 14:40			WOR	
	3						
28							
30							
32	S-9	Very soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. SAND, H2S odor - ORGANIC SILT (OL)	PID = 0 ppm 14:55			WOR	24" Recovery
	2						
34							
35							
36	S-10	Very soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. SAND, H2S odor - ORGANIC SILT (OL)	PID = 0 ppm 4/3/99 10:50			WOR	24" Recovery
	2						
37							
38							
40							
42	S-11	Very soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. SAND, plant roots - ORGANIC SILT (OL) ESTUARINE SILT	PID = 0 ppm 4/3/99 10:50			WOR	24" Recovery
						2	
						2	
						2	

HTW DRILLING LOG						HOLE No. WC2-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 4 OF 10 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
44							
45							
46	S-12	Very loose, moist, greenish-gray, c-m SAND, some f sand, trace micaceous sand, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm 11:05			WOR	24" Recovery
47		GLACIAL DEPOSITS				2	
48						4	
50							
52	S-13	Loose, moist, greenish gray, c-f SAND, some gravel, trace silt, trace micaceous sand - Well Graded Sands (SW)	PID = 0 ppm 11:15			3	24" Recovery
54						4	
55						9	
56	S-14	Med. dense, moist, greenish gray, m-f SAND, some c. sand, trace gravel, trace silt - Poorly graded SAND (SP)	PID = 0 ppm 11:30		WC2-1D/ S-14 For TOC and CEC Analysis	9	Recovery Information is not available
57						8	
58						14	
						22	
						29	

HTW DRILLING LOG						HOLE No. WC2-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 5 10 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
60	S-15	Med. dense, moist, green to brown, m-f SAND, trace c. sand, silt - Poorly graded SAND (SP)	PID = 0 ppm 11:45				20" Recovery
						9	
						11	
						22	
62						26	
64	S-16	Med. dense, moist, green to brown, c-m SAND, trace silt - Well graded SAND (SW)	PID = 0 ppm 12:05				18" Recovery
						3	
						7	
						9	
66						15	
68	S-17	Very loose to med. dense, moist, green to brown, f. SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm 13:35		WC2-1D/ S-17 For TOC and CEC Analysis		12" Recovery
						3	
						5	
						10	
70						19	
72							
74							

HTW DRILLING LOG						HOLE No. WC2-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 6 OF 10 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
76	S-18	Med. dense, moist, grav, f SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm 13:55			9	14" Recovery
						17	
						23	
						23	
78	S-19	Med. dense, moist, grav, f. SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm 14:10				14" Recovery
						10	
						13	
						22	
80	S-20	Med. dense, moist, grav, f. SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm			22	14" Recovery
82	S-20	Med. dense, moist, grav, f. SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm			5	14" Recovery
						15	
						20	
						22	
84	S-20	Med. dense, moist, grav, f. SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm				14" Recovery
86	S-20	Med. dense, moist, grav, f. SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm				14" Recovery
88	S-20	Med. dense, moist, grav, f. SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm				14" Recovery
90	S-20	Med. dense, moist, grav, f. SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm				14" Recovery

HTW DRILLING LOG						HOLE No. WC2-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 7 OF 10 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
92	S-21	Loose to med. dense, moist, gray, f. SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 14:50			3	16" Recovery
						5	
						8	
						15	
94	S-22	Loose to med. dense, moist, gray, f. SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm 15:10				18" Recovery
95						7	
96						13	
97						20	
98	S-23	Loose to med. dense, moist, gray, f. SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm 15:50				18" Recovery
100						10	
						25	
						28	
102	S-24	Med. dense, moist, gray, f. SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm 16:10				24" Recovery
						10	
104							
105						15	
106							

HTW DRILLING LOG						HOLE No. WC2-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 8 10 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	S-24					23	
						27	
108							
110							
	S-25	Loose, moist, grav, silty f. SAND - Silty SAND (SM)	PID = 0 ppm 4/6/99 8:45			3	18" Recovery
						5	
112						11	
						12	
114							
	S-26	Loose, moist, green to brown, silty f. SAND - Silty SAND (SM)	PID = 0 ppm 9:00			4	16" Recovery
116						6	
						10	
118						14	
120							
	S-27	Loose to med. dense, moist, green to brown, f. SAND, some silt - Silty SAND (SM)	PID = 0 ppm 9:25		WC2-1D/S27 For TOC & CEC Analysis	4	14" Recovery
						9	
						20	
122						25	

HTW DRILLING LOG						HOLE No. WC2-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 9 OF 10 SHEETS	
DEPTH a	SAMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
124	S-28	Loose to med. dense, moist, green to brown, f. SAND, some silt - Silty SAND (SM)	PID = 0 ppm 9:40				12" Recovery
125						6	
126						13	
127						15	
128						25	
130	S-29	Loose to med. dense, moist, greenish-gray, f. SAND, some silt - Silty SAND (SM)	PID = 0 ppm 10:45				18" Recovery
131						4	
132						6	
133						12	
134						15	
135	S-30	Loose to med. dense, moist, greenish-gray, m-f SAND, some silt - Poorly Graded Sand, Silty SAND (SP-SM)	PID = 0 ppm 11:00				18" Recovery
136						3	
137						5	
138						5	
						7	

HTW DRILLING LOG						HOLE No. WC2-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 10 10 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
140	S-31	Dense, moist, greenish-brown, m-f SAND, trace f. gravel, silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm 11:50		WC2-1D/ S-31 Sampled for TOC and CEC Analysis	25	24" Recovery
						42	
						25	
142						22	
144	S-32	Dense, moist, greenish-brown, c-f SAND, trace f. gravel - Poorly graded SAND (SP) GLACIAL DEPOSITS	PID = 0 ppm 13:30				24" Recovery
145						13	
146						19	
147						17	
						29	
148	S-33	Dense, grayish brown, m-f SAND, trace f. gravel - Poorly graded SAND (SP)	PID = 0 ppm 14:35				Auger refusal at 150.5 ft
150						100/5"	
152		END OF BORING					
154							

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7/25/02

PROJECT

Stratford Army Engine Plant Remedial Investigation
Project No. R98104

HOLE No.

WC2-1D

BORING LOG							HOLE No. WC2-11	
1. COMPANY NAME URSGWC Federal Services				2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 1 SHEET	
3. PROJECT Stratford Army Engine Plant Remedial Investigation				4. LOCATION Stratford, Connecticut				
5. NAME OF DRILLER Steve Butrej				6. MANUFACTURER'S DESIGNATION OF DRILL CME 75 Truck Mounted Drill Rig				
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD split spoon			8. HOLE LOCATION Approximately 5 ft from NW corner of B-58 (Area No. 2)			
		4 1/4 " ID, 5-foot augers						
					9. SURFACE ELEVATION + 6.83 feet			
					10. DATE STARTED 4/8/99		11. DATE COMPLETED 4/8/99	
12. OVERBURDEN THICKNESS > 55 feet				15. DEPTH GROUNDWATER ENCOUNTERED 5 feet				
13. DEPTH DRILLED INTO ROCK 0				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 5.2 ft bgs				
14. TOTAL DEPTH OF HOLE 55 feet				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)				
18. GEOTECHNICAL SAMPLES N/A		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A		
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC		SEMI-VOCs		METALS		OTHER (SPECIFY)
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		21. TOTAL CORE RECOVERY N/A
				X				23. NAME OF INSPECTOR Ricardo Colón
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c		FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
52								Driller augered directly down to 55 ft (from q.s.). The split-spoons were not used while advancing the borehole. For a characterization of the soil, please refer to WC2-ID.
54								
55								
56								
58								
60		END OF BORING						

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PROJECT
Stratford Army Engine Plant Remedial Investigation
 Project No. R98104

HOLE No.
WC2-11

7/25/02

BORING LOG						HOLE No. WC2-1S	
1. COMPANY NAME URSGWC Federal Services			2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 2 SHEETS	
3. PROJECT Stratford Army Engine Plant Remedial Investigation			4. LOCATION Stratford, Connecticut				
5. NAME OF DRILLER Steve Butrej			6. MANUFACTURER'S DESIGNATION OF DRILL CME 85 Truck Mounted Drill Rig				
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2 " OD split spoon		8. HOLE LOCATION			
		4 1/4", 5-foot augers		In Area No. 2, Near S-E corner of building B-58.			
				9. SURFACE ELEVATION + 6.27 feet			
				10. DATE STARTED 4/9/99		11. DATE COMPLETED 4/14/99	
12. OVERBURDEN THICKNESS > 12 feet			15. DEPTH GROUNDWATER ENCOUNTERED 4 feet bgs				
13. DEPTH DRILLED INTO ROCK 0			16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT 4.4ft bgs				
14. TOTAL DEPTH OF HOLE 12 feet			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)				
18. GEOTECHNICAL SAMPLES N/A		DISTURBED X		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A	
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC		SEMI-VOCs		21. TOTAL CORE RECOVERY N/A	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		23. NAME OF INSPECTOR Ricardo Colón	
				X			
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
0.5	S-1	Loose, moist, brown, f SAND, trace m-c sand and f. gravel - Poorly graded SAND (SP) FILL LAYER	PID = 0 ppm 9:25			5	Recovery 7"
						5	
2						93	
2.5	S-2	Loose, moist, brown f. SAND, some silt, trace micaceous sand, exhibits a petroleum-like odor - Silty-SANDS (SM) W.T.	Headspace = 1.7 ppm 10:15			100 / 1"	Penetration 19" Hit pipe in RUN 1 End of boring
						4	RUN 2
4						3	
4.5	S-3	Loose, wet, black, gravelly, m-f SAND, some f. gravel, - Poorly Graded SAND (SP)	PID = 147 ppm 10:25			4	12" Recovery
						6	Sample is oil-stained and exhibits a petroleum-like odor. See field results for S-3.
6						7	
6.5	S-4	Loose, wet, brown, c-f SAND, trace f. gravel and micaceous sand, Poorly Graded SANDS (SP)	PID = 26.9 ppm 10:35			7	13" Recovery
						5	Sample is oil-stained and a petroleum-like odor is evident. See field screening results for S-4.
8						6	
8.5	S-5	Loose, wet, brown, m-f SAND, trace f. gravel, trace silt - Poorly Graded SAND (SP) FILL LAYER	PID = 0 ppm 10:50			9	8" Recovery
						1	A slight petroleum-like odor is evident.
10						4	
						4	

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PROJECT
Stratford Army Engine Plant Remedial Investigation
 Project No. R98104

HOLE No. **WC2-1S**

7/25/02

HTW DRILLING LOG						HOLE No. WC2-1S	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 2 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
10.5	SS					8	
12		END OF BORING					
14							
15							
16							
17							
18							
20							
22							
24							
25							
26							

BORING LOG						HOLE No. WC2-2D Run 1		
1. COMPANY NAME URSGWC Federal Services			2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 5 SHEETS		
3. PROJECT Stratford Army Engine Plant Remedial Investigation			4. LOCATION Stratford, Connecticut					
5. NAME OF DRILLER Steve Butrej			6. MANUFACTURER'S DESIGNATION OF DRILL CME 85 Truck Mounted Drill Rig					
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD split spoons		8. HOLE LOCATION Northeastern section Area No. 2, east of building B-19.				
		4 1/4" ID, 5' augers		9. SURFACE ELEVATION + 7.78 feet				
				10. DATE STARTED 3/30/99		11. DATE COMPLETED 3/31/99		
12. OVERBURDEN THICKNESS 62 feet			15. DEPTH GROUNDWATER ENCOUNTERED 6 feet					
13. DEPTH DRILLED INTO ROCK 0			16. DEPTH TO WATER 24 HRS AFTER WELL DEVELOPMENT N/A					
14. TOTAL DEPTH OF HOLE 62 feet			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)					
18. GEOTECHNICAL SAMPLES N/A		DISTURBED X		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A		
20. SAMPLES FOR CHEMICAL ANALYSIS Sampled S-2, S-3, S-8, S-11 and S-14 for TOC and CEC Analysis.		VOC		SEMI-VOCs		21. TOTAL CORE RECOVERY		
						TOC, CEC N/A		
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		23. NAME OF INSPECTOR Ricardo Colón		
		X						
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h	
0.5	S-1	Asphalt (3")	PID = 0 ppm 14:05			13	16" Recovery	
		Loose to med. dense, moist, brown, f. SAND, trace silt - Poorly graded SAND with silt (SP-SM)						
		FILL LAYER						
2	S-2	Increasing silt content	PID = 0 ppm 14:10		WC2-2D/S-2 Sampled for TOC and CEC Analysis	7	14" Recovery	
2.5								4
								3
4	S-3	Med. dense, brown, m-f SAND, trace f. gravel to c. sand - Poorly graded SAND (SP)	PID = 0 ppm 14:35		WC2-2D/S-3 Sampled for TOC and CEC Analysis	2	18" Recovery	
4.5								4
								10
6	S-4	W.T.	PID = 0 ppm 14:40			14	24" Recovery	
6.5								13
								5
8	S-5	Loose to med. dense, wet, lt. brown, m-c SAND, trace f. gravel - Poorly graded SAND (SP)	PID = 0 ppm 15:00			9	24" Recovery	
								8
8.5								10
10	S-5	Loose, wet, greenish-grav, m-c SAND, trace f. gravel, silt - Poorly graded SAND (SP)	PID = 0 ppm 15:00			3	24" Recovery	
								6
								11
Modified MRK Form 55 URSGWC Federal Services Log prepared			PROJECT Stratford Army Engine Plant Remedial Investigation Project No. R98104			HOLE No. WC2-2D Run 1		

HTW DRILLING LOG						HOLE No. WC2-2D Run 1	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 2 5 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
10.5	S-5	No Sample Retrieved				11	No Recovery
12						5	
14						5	
15						5	
16	S-6					4	
17							
18							
20							
	S-7	Dense, moist, lt. brown, m-f SAND, trace f. gravel - Poorly graded SAND (SP) GLACIAL DEPOSITS	PID - 0 ppm 15:20			6	24" Recovery
22						25	
						38	
						57	
24							
25							
	S-8	Med. dense to dense, moist, yellowish-orange, f. SAND, trace silt - Poorly graded SAND, with silt (SP-SM)	PID - 0 ppm 15:30		WC2-2D/S-8 Sampled for TOC and CEC Analysis	11	24" Recovery
26						23	

HTW DRILLING LOG						HOLE No. WC2-2D Run 1	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 3 OF 5 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27	S-8					30	
						40	
28							
30							
		Loose to med. dense, wet, yellowish-orange, f. SAND, trace silt - Poorly graded SAND (SP-SM)	PID = 0 ppm 15:40			4	24" Recovery
	S-10					6	
						14	
32						20	
34							
35							
		Loose to med. dense, moist, yellowish-orange, f. SAND, trace gravel, silt - Poorly graded SAND (SP-SM)	PID - 0 ppm 15:55			3	24" Recovery
36	S-11					5	
						9	
37						11	
38							
40							
		Loose to med. dense, moist, yellowish-orange, f. SAND, trace gravel, silt - Poorly graded SAND with silt (SP-SM)	PID - 0 ppm 16:10			4	24" Recovery
	S-12					9	
						13	
42						26	

HTW DRILLING LOG						HOLE No. WC2-2D Run 1	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 4 OF 5 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
44							
45							
46	S-13	Loose to med. dense, greenish-gray, m-f SAND, trace gravel, silt - Poorly Graded SANDS (SP)	PID - 0 ppm 3/31/99 9:20			6	20" Recovery
47						13	
48						20	
49						20	
50							
51	S-14	Loose to med. dense, moist, greenish-gray, m-f SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID - 0 ppm 9:30		WC2-2D/ S-14 Sampled for TOC and CEC Analysis	4	20" Recovery
52						7	
53						11	
54						14	
55							
56	S-15	Loose to med. dense, moist, greenish-gray, f. SAND, trace silt - Poorly graded SAND (SP)	PID - 0 ppm 9:50			4	20" Recovery S-14
57		GLACIAL DEPOSITS				7	
58						11	
						14	

HTW DRILLING LOG						HOLE No. WC2-2D Run 1	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 5 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
60		SEE REMARKS →					Auger hit hard (presumably rock) layer at 59 ft. Tried unsuccessfully to drive spoon.
62		END OF BORING					Then tried to auger through it and hit refusal at 62 ft No sample taken
64							
65							
66							
67							
68							
70							
72							
74							

BORING LOG							HOLE No. WC2-2D Run 2	
1. COMPANY NAME URSGWC Federal Services			2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 1 SHEET		
3. PROJECT Stratford Army Engine Plant Remedial Investigation				4. LOCATION Stratford, Connecticut				
5. NAME OF DRILLER Steve Butrej				6. MANUFACTURER'S DESIGNATION OF DRILL CME 85 Truck Mounted Drill Rig				
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD splitspoons 4 1/4" ID, 5' augers Core barrel		8. HOLE LOCATION Northeastern section of Area No. 2, east of building B-19.		9. SURFACE ELEVATION + 7.78 feet		
				10. DATE STARTED 4/1/99		11. DATE COMPLETED 4/2/99		
12. OVERBURDEN THICKNESS 62 feet				15. DEPTH GROUNDWATER ENCOUNTERED 6 feet below ground surface				
13. DEPTH DRILLED INTO ROCK 5				16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT 5.6 ft bgs				
14. TOTAL DEPTH OF HOLE 67 feet				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)				
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES 1		
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		SEMI-VOCs		METALS		
						OTHER (SPECIFY)		
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		
				X		23. NAME OF INSPECTOR Ricardo Colón		
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h	
60		GLACIAL DEPOSITS					Driller augered down directly to 60' (from g.s.). No spoons were driven at earlier intervals. See boring log WC2-2D Run 1 for description.	
62	S-15	Medium dense, moist, greenish-gray f. SAND - Poorly graded SAND (SP)				22	24" Recovery S-15	
		Dense, olive-gray, gravelly, c-f SAND - Poorly graded SAND (SP)				26		
		Olive-gray rubble				34		
64		Core Run #2 Schist, gray, medium, grained, thickly-bedded, strong (top 1.5' feet) <u>Legend</u> N-naturally occurring fracture M-mechanical break/fracture (occurred during core run) <u>Note</u> Naturally occurring fracture was caused by faulting.	M	Core WC2-2DA Penetration = 60" Recovery = 59" Strength = Strong Hardness = Mod. Hard Sum of Lengths Intact = 53.2 inches RQD = Sum of L Intact/ Pen. = 53.2/60 = 0.89 Recovery % = Recov./Pen x 100% = 59/60 x 100% = 98.3%		6 min	Spoon Hit Refusal at 62'	
						6 min		
						5 min		
						5 min		
66			N M			5 min		
						5 min		
		END OF BORING					Penetration to 67'	
68								

Modified MRK Form 55
 URSGWC Federal Services
 Log prepared

PROJECT
Stratford Army Engine Plant Remedial Investigation
 Project No. R98104

HOLE No.
WC2-2D Run 2

7/25/02

BORING LOG						HOLE No. WC2-2I			
1. COMPANY NAME URSGWC Federal Services			2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 4 SHEETS			
3. PROJECT Stratford Army Engine Plant Remedial Investigation			4. LOCATION Stratford, Connecticut						
5. NAME OF DRILLER Steve Butrej			6. MANUFACTURER'S DESIGNATION OF DRILL CME 75 Truck Mounted Drill Rig						
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD splitspoons		8. HOLE LOCATION East of B-16, between B-16 and Causeway (in Area No. 2).					
		4 1/4" ID, 5' augers		9. SURFACE ELEVATION + 7.47 feet					
				10. DATE STARTED 3/26/99		11. DATE COMPLETED 3/29/99			
12. OVERBURDEN THICKNESS > 55 feet			15. DEPTH GROUNDWATER ENCOUNTERED 5.5 feet						
13. DEPTH DRILLED INTO ROCK 0			16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT 4.7 ft bgs						
14. TOTAL DEPTH OF HOLE 55 feet			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)						
18. GEOTECHNICAL SAMPLES N/A		DISTURBED X		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC		SEMI-VOCs		21. TOTAL CORE RECOVERY			
						N/A			
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		23. NAME OF INSPECTOR Ricardo Colón			
				X					
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h		
0.5	S-1	Concrete (6")	PID = N/A 13:35			4	20" Recovery		
		Med. dense, moist, brown, f. SAND, trace gravel - Poorly graded SAND (SP)						28	
		FILL LAYER						13	
2								11	
2.5	S-2	Med. dense to very dense, moist, brown, f. SAND, some silt, trace gravel - Silty SAND (SM)	PID = N/A 13:40			15	8" Recovery		
								49	15" Penetration
4								50/3"	
4.5	S-3	W.T.				18	No Recovery		
								21	
6	S-3					18			
								14	
6.5								10	No Recovery
		10							
8	S-4					13			
							12		
8.5							3	15" Recovery	
	Loose, wet, black, m-f SAND, trace f. gravel to c. sand, - Poorly Graded SAND (SP)	PID = 95.1 ppm 8:35	4	Oil stains(black) and petroleum-like odors are evident.					
10	FILL LAYER		5						
Modified MRK Form 55 URSGWC Federal Services Log prepared			PROJECT Stratford Army Engine Plant Remedial Investigation Project No. R98104			HOLE No. WC2-2I			

7/25/02

HTW DRILLING LOG						HOLE No. WC2-2I	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 2 4 SHEETS	
DEPTH a	SAMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
10.5	S-5					9	
12							
14							
15							
16	S-6	Very soft, wet, dk. gray, low plasticity, ORGANIC SILT - ORGANIC SILT (ML-OL) ESTUARINE SILT	PID = 0 ppm 8:45			1	24" Recovery
17						1	
18						1	
20						1	24" Recovery
22	S-7	Very soft, wet, dk. gray, low plasticity, ORGANIC SILT - ORGANIC SILT (ML-OL)	PID = 13.8 ppm H ₂ S = 32 ppm 9:00			1	
24						1	
25						1	24" Recovery
26	S-8	Very soft, wet, dk. gray, low plasticity, ORGANIC SILT - ORGANIC SILT (ML-OL)	PID = 4.8 ppm H ₂ S = 21 ppm 9:10			2	

HTW DRILLING LOG						HOLE No. WC2-21	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 3 OF 4 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27	S-8					2	
28						2	
30							
32	S-9	Very soft, wet, dk. gray, low plasticity, ORGANIC SILT - ORGANIC SILT (ML-OL)	PID = 0 ppm H ₂ S = 76 ppm 9:20			1	24" Recovery
						2	
34							
35							
36	S-10	Very soft, wet, dk. gray, low plasticity, ORGANIC SILT - ORGANIC SILT (ML-OL)	PID = 0 ppm H ₂ S = 34 ppm 9:35			1	24" Recovery
37						1	
						3	
38						3	
40							
42	S-11	Very soft, dk. gray, low plasticity, ORGANIC SILT - ORGANIC SILT (ML-OL) ESTUARINE SILT Increasing sand content	PID = 0 ppm 9:55			4	24" Recovery
						2	
						5	
						9	

HTW DRILLING LOG						HOLE No. WC2-2I	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 4 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
44							
45							
46	S-12	Med. dense, wet, reddish brown, f. gravelly m-f SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm 10:10			2	24" Recovery
47		GLACIAL DEPOSITS				8	
48						19	
50						24	
52	S-13	Loose to med. dense, wet, brown, f. SAND - Poorly graded SAND (SP)	PID = 0 ppm 10:20			4	16" Recovery
54						8	
55						10	
56	S-14	Loose to med. dense, wet, brown, f. SAND - Poorly graded SAND (SP)	PID = 0 ppm 10:35			11	
57		GLACIAL DEPOSITS				3	16" Recovery S-14
58		END OF BORING				8	
						10	
						10	

BORING LOG						HOLE No. WC2-3D	
1. COMPANY NAME URSGWC Federal Services			2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 6 SHEETS	
3. PROJECT Stratford Army Engine Plant Remedial Investigation			4. LOCATION Stratford, Connecticut				
5. NAME OF DRILLER Steve Butrej			6. MANUFACTURER'S DESIGNATION OF DRILL CME 85 Truck Mounted Drill Rig				
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD splitspoons		8. HOLE LOCATION Near NW end of B-8 in Area No. 2			
		4 1/4" ID, 5' augers					
		Core barrel		9. SURFACE ELEVATION + 7.73 feet			
		10. DATE STARTED 4/9/99		11. DATE COMPLETED 4/13/99			
12. OVERBURDEN THICKNESS 84.5 feet			15. DEPTH GROUNDWATER ENCOUNTERED 5.2 feet				
13. DEPTH DRILLED INTO ROCK 5 feet			16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT 5.5 ft bgs				
14. TOTAL DEPTH OF HOLE 90 feet			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)				
18. GEOTECHNICAL SAMPLES		DISTURBED X		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES 1	
20. SAMPLES FOR CHEMICAL ANALYSIS Samples were taken for S-2, S-4, S-6, S-10, S-12 and S-17 for TOC & CEC Analysis.		VOC		SEMI-VOCs		OTHER (SPECIFY)	
						TOC, CEC	
21. TOTAL CORE RECOVERY 55 inches		22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				X		23. NAME OF INSPECTOR Ricardo Colón	
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
0.5	S-1	Loose, moist, brown to dk. brown, silty f. SAND, trace gravel - Silty SAND (SM) FILL LAYER	PID = 0 ppm 14:05			6	16" Recovery
2	S-2	Very soft, moist, dk. brown, low plastic, sandy SILT (ML)	PID = 0 ppm 14:10		WC2-3D/S-2 Sampled for TOC, CEC Analysis	9	20" Recovery
2.5	S-3	W.T.	PID = 0 ppm			3	No Recovery
4	S-4	Moist, brown, silty f. SAND - Silty SAND (SM)	PID = 0 ppm 14:20		WC2-3D/S-4 Sampled for TOC, CEC Analysis	3	18" Recovery
4.5	S-5	Loose, brown, f. SAND - Poorly graded SAND (SP) FILL LAYER	PID = 0 ppm			1	16" Recovery
6						1	
6.5						1	
8						1	
8.5						WOR	
10							
Modified MRK Form 55 URSGWC Federal Services Log prepared			PROJECT Stratford Army Engine Plant Remedial Investigation Project No. R98104			HOLE No. WC2-3D	

HTW DRILLING LOG						HOLE No. WC2-3D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 2 OF 6 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
10.5	S-5					10	
12							
14							
15							
16	S-6	Loose, wet, lt. brown, m-c SAND, some gravel - Poorly graded SAND (SP) GLACIAL DEPOSITS	PID = 0 ppm 14:45		WC2-3D/S-6 for TOC and CEC Analysis	5 7 8 11	24" Recovery S-6
17							
18							
20							
22	S-7	Loose, wet, lt. brown, m-c SAND, some gravel - Poorly Sorted SANDS (SP)	PID = 0 ppm 14:55			3 7 8 12	14" Recovery
24							
25							
26	S-8	Med. dense, wet, dk. brown, m-c SAND, some f. gravel - Poorly Sorted SANDS (SP)	PID = 0 ppm 15:05			21 25	20" Recovery

HTW DRILLING LOG						HOLE No. WC2-3D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 3 OF 6 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27	S-8					27	
						23	
28							
30							
	S-9	Med. dense, wet, tan, f. SAND, trace silt - Poorly graded SAND (SP)	PID = 0 ppm 15:15			8	18" Recovery
						8	
32						13	
						17	
34							
35		Med. dense, wet, tan, f. SAND, trace silt - Poorly graded SAND (SP)	PID = 0 ppm 15:30		Sampled WC2-3D/ S-10 For TOC & CEC Analysis	8	18" Recovery
36	S-10					16	
37		INCREASING FINES				18	
38							
40		Med. dense, wet, tan, f. SAND, trace silt - Poorly graded SAND (SP)	PID = 0 ppm 12-Apr-99 8:10				14" Recovery
	S-11						
42							

HTW DRILLING LOG						HOLE No. WC2-3D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 4 6 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
44	S-12	Med. dense, wet, tan, f. SAND, trace silt - Poorly graded SAND (SP)	PID = 0 ppm 8:25		Sampled WC2-3D/ S-12 for TOC and CEC Analysis		18" Recovery
45						3	
46						8	
47						11	
48						9	
50	S-13	Loose, wet, tan, f. SAND, trace silt - Poorly graded SAND (SP)	PID = 0 ppm 8:40				6" Recovery
51						3	
52						3	
53						5	
54						5	
55	S-14	Loose, moist, tan, f. SAND, trace silt - Poorly graded SAND (SP)	PID = 0 ppm 8:55				12" Recovery
56						4	
57						7	
58						9	
						9	

HTW DRILLING LOG						HOLE No. WC2-3D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 5 OF 6 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
60	S-15	Loose, wet, tan, f. SAND, trace silt - Poorly graded SAND (SP)	PID = 0 ppm 9:15				9" Recovery
						2	
						2	
						3	
62						5	
64							
65	S-16	Med. dense, moist, tan, f. SAND, trace silt - Poorly graded SAND (SP)	PID = 0 ppm 9:30				18" Recovery
66						5	
67						8	
						10	
68						14	
70							
72	S-17	Med. dense to dense, wet, brown, c-f SAND, some f. gravel, c. sand - Well graded SAND (SW)	PID = 0 ppm 9:40		Sampled WC2-3D/ S-17 for TOC and CEC Analysis	9	12" Recovery
						24	
						35	
						40	
74							

HTW DRILLING LOG						HOLE No. WC2-3D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 6 OF 6 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEO TECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
75	S-18	Loose to med. dense, brown, c-f SAND, some f. gravel, c. sand - Poorly graded SANDS (SP)	PID = 0 ppm 10:05				19" Recovery
76						5	
						7	
						10	
77						14	
78							
80	S-19	Med. dense, brown, m-c SAND, some gravel, till - Poorly graded SAND (SP) GLACIAL DEPOSITS Increasing silt content	PID = 0 ppm				14" Recovery
						11	
						11	
						21	
82						30	
84							
84.5							
85						50 / 1"	Auger hits refusal at 85'1".
86	Core Run #1 Phyllite, gray, fine-grained, thickly-bedded, strong (throughout core) <u>Legend</u> N-Naturally occurring fracture M-mechanical break (occurred during core run) <u>Note</u> All naturally occurring fractures are caused by faulting.		Core WC2-3D (Run #1) Penetration = 60 " Recovery = 55 " Strength = Strong Hardness = Mod. Hard Sum of Lengths intact = 45.1" RQD = Sum of L intact / Pen. = 45.1/60 = 0.75 Recovery % = Recovery/ Pen x 100% = 55/60 x 100% = 92%			8 min	Penetration stopped at 90'1".
						7 min	
						5 min	
						6 min	
						6 min	
88							
90						END OF BORING	

Modified MRK Form 55
 URSGWC Federal Services
 Log prepared

PROJECT
Stratford Army Engine Plant Remedial Investigation
 Project No. R98104

HOLE No.
WC2-3D

BORING LOG						HOLE No. WC2-3I	
1. COMPANY NAME URSGWC Federal Services			2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 4 SHEETS	
3. PROJECT Stratford Army Engine Plant Remedial Investigation			4. LOCATION Stratford, Connecticut				
5. NAME OF DRILLER Steve Butrej			6. MANUFACTURER'S DESIGNATION OF DRILL CME 75 Truck Mounted Drill Rig				
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD split spoon		8. HOLE LOCATION Northeast side of B-16, near causeway entrance (in Area No. 2).			
		4 1/4" ID, 5-foot augers					
				9. SURFACE ELEVATION + 6.17 feet			
		10. DATE STARTED 3/25/99			11. DATE COMPLETED 3/26/99		
12. OVERBURDEN THICKNESS > 55 feet			15. DEPTH GROUNDWATER ENCOUNTERED 6 feet below ground surface				
13. DEPTH DRILLED INTO ROCK 0			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 3.7 ft bgs				
14. TOTAL DEPTH OF HOLE 55 feet			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)				
18. GEOTECHNICAL SAMPLES		DISTURBED X		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A	
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC		SEMI-VOCs		21. TOTAL CORE RECOVERY	
						N/A	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		23. NAME OF INSPECTOR Ricardo Colón	
				X			

DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h	
0.5	1	Asphalt (2")	PID = 0 ppm 10:30			20	20" Recovery	
		Med. dense, moist, lt. brown, m-f SAND, some c. sand, trace gravel - Poorly Graded SANDS (SP)						25
		FILL LAYER						13
2	2		PID = 0 ppm 10:40			23	24" Recovery	
2.5		Loose, moist, lt. brown, m-f SAND, some c. sand, trace gravel - Poorly Graded SANDS (SP)				13		
						18		
4	3	Soil density downgrades to loose	PID = 0 ppm 10:45			13	1" Recovery	
4.5		Very loose, wet, lt. brown, m-f SAND, some c. sand, trace gravel - Poorly Graded SANDS (SP)				8		
						8		
6	4	W.T.	PID = 0 ppm 10:55			3	4" Recovery	
6.5						2		
						3		
8	5		PID = 0 ppm 11:05			2	10" Recovery	
8.5		Very loose, wet, olive gray, c-f SAND, some silt, trace gravel - Poorly Graded SAND (SP)				3		
		FILL LAYER				2		
10						2		

Modified MRK Form 55 URSGWC Federal Services Log prepared	7/25/02	PROJECT Stratford Army Engine Plant Remedial Investigation Project No. R98104	HOLE No. WC2-3I
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HTW DRILLING LOG						HOLE No. WC2-3I			
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 2 OF 4 SHEETS			
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h		
10.5	S-5					3			
12	S-6	Soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. sand ORGANIC SILT - (OL) ESTUARINE SILT	PID = 0 ppm 11:20			1	24" Recovery		
14	S-6					2			
15	S-6					3			
16	S-6					3			
17	S-6								
18	S-6								
20	S-6	Soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. sand ORGANIC SILT - (OL)	PID = 0 ppm 11:30			1	24" Recovery		
22	S-6					1			
24	S-6					3			
25	S-8	Soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. sand ORGANIC SILT - (OL)	PID = 7.7 ppm H ₂ S = 7.7 ppm 11:45			1	24" Recovery		
26						2			

HTW DRILLING LOG						HOLE No. WC2-3I	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 3 OF 4 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27	S-8					2	
						2	
28							
30							
	S-9	Soft, moist, dk. gray, low plasticity, ORGANIC SILT, some f. sand ORGANIC SILT - (OL)	Headspace = 2.2 ppm 12:00			WOR 2	24" Recovery
						2	
32						3	
34							
35							
	S-10	Soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. sand, trace organic debris (OL)	Headspace = 2.1 ppm 13:10			1	24" Recovery
36						2	
						2	
37						3	
38							
40							
	S-11	Soft, moist, dk. gray to black, low plasticity, ORGANIC SILT, trace organic debris (OL) ESTUARINE SILT	PID = 0 ppm 13:25			3	24" Recovery
						3	
						3	
42						5	

HTW DRILLING LOG						HOLE No. WC2-3I	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 4 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
44							
45							
46	S-12	Med. dense, moist, gray, c-f SAND, some gravel - Well graded SAND (SW) GLACIAL DEPOSITS	PID = 0 ppm 13:45			5	24" Recovery
47						6	
48						13	
50						21	
52	S-13	Med. dense, moist, yellowish-orange, m-f SAND - Poorly graded SAND (SP)	PID = 0 ppm 14:00			15	24" Recovery
53						17	
54	S-14	Med. dense, moist, yellowish-orange, m-f SAND, trace micaceous sand - Poorly Graded SANDS (SP) GLACIAL DEPOSITS	PID = 0 ppm 14:20			15	
55						16	
56		END OF BORING					
57							
58							

BORING LOG										HOLE No. WC2-3S																																																																	
1. COMPANY NAME URSGWC Federal Services					2. DRILLING SUBCONTRACTOR Connecticut Test Borings					SHEET 1 OF 1 SHEET																																																																	
3. PROJECT Stratford Army Engine Plant Remedial Investigation					4. LOCATION Stratford, Connecticut																																																																						
5. NAME OF DRILLER Steve Butrej					6. MANUFACTURER'S DESIGNATION OF DRILL CME 75 Truck Mounted Drill Rig																																																																						
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT			2" OD split spoon			8. HOLE LOCATION On walkway between B-16 and berm fence(in Area No. 2).																																																																					
			4 1/4" ID, 5-foot augers																																																																								
						9. SURFACE ELEVATION + 7.02 feet																																																																					
12. OVERBURDEN THICKNESS > 12 feet					15. DEPTH GROUNDWATER ENCOUNTERED 5.5 feet																																																																						
13. DEPTH DRILLED INTO ROCK 0					16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT 5.9 ft bgs																																																																						
14. TOTAL DEPTH OF HOLE 12 feet					17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)																																																																						
18. GEOTECHNICAL SAMPLES			DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A																																																																				
20. SAMPLES FOR CHEMICAL ANALYSIS N/A			VOC		SEMI-VOCs		METALS		OTHER (SPECIFY)		21. TOTAL CORE RECOVERY N/A																																																																
22. DISPOSITION OF HOLE			BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		23. NAME OF INSPECTOR Ricardo Colón																																																																		
					X																																																																						
<table border="1"> <thead> <tr> <th>DEPTH (FEET) a</th> <th>SMPL. INT. b</th> <th>DESCRIPTION OF MATERIALS c</th> <th>FIELD SCREENING RESULTS d</th> <th>GEOTECH SAMPLE OR CORE BOX No. e</th> <th>ANALYTICAL SAMPLE No. f</th> <th>BLOW COUNTS g</th> <th>REMARKS h</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>W.T.</td> <td></td> <td></td> <td></td> <td></td> <td>Driller augered down directly to 12 ft(from g.s.). Split spoons were not used during the advancing of the hole. For a characterization of the soil within the same area as this well, please refer to WC2-21.</td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>END OF BORING</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>14</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h			W.T.					Driller augered down directly to 12 ft(from g.s.). Split spoons were not used during the advancing of the hole. For a characterization of the soil within the same area as this well, please refer to WC2-21.	6								8								10								12										END OF BORING						14							
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h																																																																				
		W.T.					Driller augered down directly to 12 ft(from g.s.). Split spoons were not used during the advancing of the hole. For a characterization of the soil within the same area as this well, please refer to WC2-21.																																																																				
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14																																																																											
Modified MRK Form 55 URSGWC Federal Services Log prepared 7/25/02			PROJECT Stratford Army Engine Plant Remedial Investigation Project No. R98104						HOLE No. WC2-3S																																																																		

BORING LOG										HOLE No. WC2-4I		
1. COMPANY NAME URSGWC Federal Services					2. DRILLING SUBCONTRACTOR Connecticut Test Borings					SHEET OF 1 3 SHEETS		
3. PROJECT Stratford Army Engine Plant Remedial Investigation					4. LOCATION Stratford, Connecticut							
5. NAME OF DRILLER Joseph Yarrow					6. MANUFACTURER'S DESIGNATION OF DRILL Mobile B53							
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT			2" OD, split spoon 4 1/4" ID, 5' augers			8. HOLE LOCATION South Eastern Section of Site(South of Sniffens Lane)						
						9. SURFACE ELEVATION 7.61 feet						
						10. DATE STARTED 10/26/99				11. DATE COMPLETED 10/26/99		
12. OVERBURDEN THICKNESS > 37 feet					15. DEPTH GROUNDWATER ENCOUNTERED 4 feet							
13. DEPTH DRILLED INTO ROCK 0					16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT							
14. TOTAL DEPTH OF HOLE 37 feet					17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)							
18. GEOTECHNICAL SAMPLES Yes			DISTURBED X		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES none					
20. SAMPLES FOR CHEMICAL ANALYSIS N/A			VOC no		SEMI-VOCs no		METALS no		OTHER (SPECIFY) no		21. TOTAL CORE RECOVERY N/A	
22. DISPOSITION OF HOLE			BACKFILLED yes		MONITORING WELL X		OTHER (SPECIFY)		23. NAME OF INSPECTOR Steve G. Vallianos			
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c			FIELD SCREENING RESULTS d		GEOTECH SAMPLE OR CORE BOX No. e		ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h	
		Asphalt									Drilled through one foot of asphalt.	
2	S1	V. dense, moist, lt. brown, m-f SAND, trace gravel (SP) FILL LAYER			PID = 0.0 ppm 16" Recovery					12 22	Installed 4" I.D. Casing	
		V. dense, wet, lt. brown, m-f SAND, trace gravel (SP) FILL LAYER			PID = 0.0 ppm 20" Recovery					29 30		
4	S2	W.T.								25 30 32 28		
		M. dense, wet, brown, f-c SAND, trace f. gravel (SW) FILL LAYER			PID = 200 ppm 12" Recovery					6 11 16 18		
6	S3	Same as S-3 FILL LAYER			PID = 200 ppm 24" Recovery					12 11 11 14		
8	S4											
		M. dense, brown-grey, gravelly SAND (SP) GLACIAL DEPOSITS			PID = 0.0 ppm 14" Recovery					3 6		
10	S5											

Modified MRK Form 55
 URSGWC Federal Services
 Log prepared

PROJECT
Stratford Army Engine Plant Remedial Investigation
 Project No. R98104

HOLE No.
WC2-4I

10/26/99

Project No. R98104

HTW DRILLING LOG						HOLE No. WC2-4I	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET OF 2 3 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	S-5					12	
						30	
12							
14							
15							
16	S-6	V. dense, wet, olive-grey, f. SAND, trace m. sand, trace silt (SP) GLACIAL DEPOSITS	PID = 0.0 ppm 19" Recovery			8	
25							
32							
17						48	
18							
20							
22	S-7	V. dense, wet, tan, f. SAND, trace m. sand (SP) GLACIAL DEPOSITS	PID = 0.0 ppm 23" Recovery			22	
						20	
						43	
						100/5"	
24							
25							
26	S-8	M. Dense, gray-brown, m-f SAND (SP)	PID = 0.0 ppm 8" Recovery			3	
						8	

HTW DRILLING LOG						HOLE No. WC2-4I	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET 3 OF 3 SHEETS	
DEPTH a	SAMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27	S-8	GLACIAL DEPOSITS				11	
						13	
28							
30							
	S-9	V. dense, red-brown, gravelly SAND (SP)	PID = 0.0 ppm 18" Recovery			6	
		GLACIAL DEPOSITS				18	
						39	
32						39	
34							
35							
	S-10	V. dense, grey-brown, f-c SAND, little f. gravel (SP)	PID = 0.0 ppm 13" Recovery			24	
		GLACIAL DEPOSITS				24	Used roller-bit with drilling fluid (water) to reach required depth of 35 feet bgs.
36						33	
						42	
37							
		END OF BORING AT 37' BELOW GROUND SURFACE.					
38							
40							
42							

BORING LOG						HOLE No. WC2-4S		
1. COMPANY NAME URSGWC Federal Services			2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 2 SHEETS		
3. PROJECT Stratford Army Engine Plant Remedial Investigation			4. LOCATION Stratford, Connecticut					
5. NAME OF DRILLER Steve Butrej			6. MANUFACTURER'S DESIGNATION OF DRILL CME 75 truck-mounted drill rig					
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD split spoon		8. HOLE LOCATION In NE section of Area No. 2, SW of building B-19.				
		4 1/4" ID, 5' foot augers						
				9. SURFACE ELEVATION				
		10. DATE STARTED 3/21/99		11. DATE COMPLETED 3/22/99				
12. OVERBURDEN THICKNESS > 12 feet			15. DEPTH GROUNDWATER ENCOUNTERED 5 feet below ground surface					
13. DEPTH DRILLED INTO ROCK 0			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 5.2 ft bgs					
14. TOTAL DEPTH OF HOLE 12 feet			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)					
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A		
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC		SEMI-VOCs		21. TOTAL CORE RECOVERY N/A		
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		23. NAME OF INSPECTOR Ricardo Colón		
				X				
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h	
0.75	S-1	Concrete (9")	PID = 0 ppm 15:15				No geotechnical samples were collected for this well 12" Recovery	
		Loose, moist, brown, f. SAND, some f. gravel to c. sand, trace silt - Poorly Graded SAND with silt (SP-SM)						
2		FILL LAYER						
2.75		Med. dense, moist brown, f. SAND - Poorly Graded SAND (SP)				PID = 0 ppm 15:20		
4				14				
4.75	S-2	Loose, wet, brown, f. SAND, trace f. gravel to c. sand - Poorly graded SAND (SP)	PID = 0 ppm 15:25			16	16" Recovery	
6						3		
6.75						5		
						7		
8	S-3	Loose, wet, brown, f. SAND, trace f. gravel to c. sand - Poorly graded SAND (SP)	PID = 0 ppm 15:30			10	24" Recovery	
						6		
						6		
						6		
8.75	S-4	Loose, wet, brown, f. SAND, trace f. gravel to c. sand - Poorly graded SAND (SP)	PID = 0 ppm 15:35			8	6" Recovery	
						5		
						5		
10						7		

Modified MRK Form 55
 URSGWC Federal Services
 Log prepared

PROJECT
Stratford Army Engine Plant Remedial Investigation
 Project No. R98104

HOLE No.
WC2-4S

HTW DRILLING LOG						HOLE No. WC2-4S	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 2 OF 2 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
10.75	SS	END OF BORING				14	
12							
14							
15							
16							
17							
18							
20							
22							
24							
25							
26							

Modified MRK Form 55 URSGWC Federal Services Log prepared	PROJECT Stratford Army Engine Plant Remedial Investigation Project No. R98104	HOLE No. WC2-4S
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BORING LOG										HOLE No. WC2-5I	
1. COMPANY NAME URSGWC Federal Services				2. DRILLING SUBCONTRACTOR Connecticut Test Borings				SHEET 1		OF 4 SHEETS	
3. PROJECT Stratford Army Engine Plant Remedial Investigation				4. LOCATION Stratford, Connecticut							
5. NAME OF DRILLER Joseph Yarrow				6. MANUFACTURER'S DESIGNATION OF DRILL Mobile B53							
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD, split spoon		8. HOLE LOCATION South Eastern Section of Site(in parking lot by building 19)							
		4 1/4" ID, 5' augers									
				9. SURFACE ELEVATION 9.34 feet							
				10. DATE STARTED 10/25/99				11. DATE COMPLETED 10/25/99			
12. OVERBURDEN THICKNESS > 42 feet				15. DEPTH GROUNDWATER ENCOUNTERED 7.3 @ 1045hrs feet							
13. DEPTH DRILLED INTO ROCK 0				16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT							
14. TOTAL DEPTH OF HOLE 42 feet				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)							
18. GEOTECHNICAL SAMPLES Yes		DISTURBED X		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES none					
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC		SEMI-VOCs		METALS		OTHER (SPECIFY)		21. TOTAL CORE RECOVERY N/A	
		no		no		no		no			
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		23. NAME OF INSPECTOR Steve G. Vallianos			
		yes		X							
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c		FIELD SCREENING RESULTS d		GEOTECH SAMPLE OR CORE BOX No. e		ANALYTICAL SAMPLE No. f		BLOW COUNTS g	REMARKS h
		Asphalt									Drilled through one foot of asphalt.
2	S1	Dense, moist, brown, m-f SAND, (SP)		PID = 0.0 ppm 12" Recovery						13	
		FILL LAYER		PID = 0.1 ppm 18" Recovery						12	
		Dense, moist, white-brown, m-f SAND, (SP)		PID = 0.2 ppm 16" Recovery						20	
		FILL LAYER								26	
4	S2	Dense, moist, white-brown, m-f SAND, (SP)		PID = 0.1 ppm 18" Recovery						19	
		FILL LAYER								19	
		V. dense, moist, brown, m-f SAND, trace f. gravel (SP)		PID = 0.2 ppm 16" Recovery						20	
		FILL LAYER								32	
6	S3	V. dense, moist, brown, m-f SAND, trace f. gravel (SP)		PID = 0.2 ppm 16" Recovery						25	
		FILL LAYER								26	
										24	
										22	
8	S4	W.T. V. dense, wet, brown, m-c SAND, trace f. gravel (SP)		PID = 0.2 ppm 18" Recovery						52	
		FILL LAYER								48	
										50	
										43	
10	S5	Dense, brown, f-c SAND, little gravel (SP)		PID = 0.0 ppm 14" Recovery						6	
		FILL LAYER								12	
Modified MRK Form 55 URSGWC Federal Services Log prepared 10/25/99				PROJECT Stratford Army Engine Plant Remedial Investigation Project No. R98104				HOLE No. WC2-5I			

HTW DRILLING LOG						HOLE No. WC2-5I	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET 2 OF 4 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	S-5					19	
						21	
12							
14							
15	S-6A	V. dense, wet, brown, gravelly SAND (SP) FILL LAYER	PID = 0.0 ppm 18" Recovery			8	
16						43	
17	S-6B	V. dense, wet, tan, f-m SAND trace silt (SP) GLACIAL DEPOSITS				100/6"	
18							
20	S-7	V. dense, tan, f. SAND, trace silt (SP) GLACIAL DEPOSITS	PID = 0.0 ppm 12" Recovery			7	
22						26	
						43	
						82	
24							
25							
26	S-8	V. Dense, tan, m-f SAND (SP) GLACIAL DEPOSITS	PID = 0.0 ppm 10" Recovery			75	
						100/4"	

HTW DRILLING LOG						HOLE No. WC2-5I	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET OF 3 4 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27	S-8						
28							
30							
	S-9	V. dense, tan, f. SAND, little f. micaceous sand, trace silt (SP) GLACIAL DEPOSITS	PID = 0.0 ppm 6" Recovery			14 49 100/5"	Used drilling fluid (water) to prevent SANDS from running into the Hollow Stem Auger.
32							
34							
35							
	S-10	Loose, tan, m-f SAND (SP) GLACIAL DEPOSITS	PID = 0.0 ppm 13" Recovery			3 3 5 16	
36							
37							
38							
40							
	S-11	No Recovery	No Recovery			6 8 19 57	
42							

Modified MRK Form 55
URSGWC Federal Services
Log prepared

10/25/99

PROJECT
Stratford Army Engine Plant Remedial Investigation
Project No. R98104

HOLE No.
WC2-5I

HTW DRILLING LOG						HOLE No. WC2-5I	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET OF 4 4 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
44		END OF BORING AT 42' BELOW GROUND SURFACE.					
45							
46							
47							
48							
50							
52							
54							
55							
56							
57							
58							

BORING LOG						HOLE No. WC2-5S		
1. COMPANY NAME URSGWC Federal Services			2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 2 SHEETS		
3. PROJECT Stratford Army Engine Plant Remedial Investigation			4. LOCATION Stratford, Connecticut					
5. NAME OF DRILLER Steve Butrej			6. MANUFACTURER'S DESIGNATION OF DRILL CME Truck Mounted Drill Rig					
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD, split spoon		8. HOLE LOCATION Northeastern section of Area No. 2 by the SE corner of building B-19.				
		4 1/4" ID, 5-foot augers						
				9. SURFACE ELEVATION				
		10. DATE STARTED 4/2/99		11. DATE COMPLETED 4/14/99				
12. OVERBURDEN THICKNESS > 12 feet			15. DEPTH GROUNDWATER ENCOUNTERED 5 feet below ground surface					
13. DEPTH DRILLED INTO ROCK 0			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 7.5 ft bgs					
14. TOTAL DEPTH OF HOLE 12 feet			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)					
18. GEOTECHNICAL SAMPLES		DISTURBED X		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A		
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC		SEMI-VOCs		METALS		
						OTHER (SPECIFY)		
21. TOTAL CORE RECOVERY N/A								
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		23. NAME OF INSPECTOR Ricardo Colón		
				X				
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h	
0.5	S-1	Asphalt (3")	PID = 0 ppm 10:20			5	20" Recovery	
		Loose, moist, brown, f. SAND - Poorly graded SAND (SP)						5
		FILL LAYER						6
2								9
2.5	S-2	Med. dense, moist, brown, f. SAND Poorly graded SAND (SP)	PID = 0 ppm 10:25			10	14" Recovery	
						12		
4						13		
4.5	S-3	Med. dense, wet, brown, m-f SAND, some f. gravel to c. sand - Poorly Graded SAND (SP)	PID = 0 ppm 10:30			12	22" Recovery	
W.T.						4		
6						11		
						18		
6.5	S-4	Med. dense, wet, brown, c-f SAND, some gravel - Well graded SAND (SW)	PID = 0 ppm			22	20" Recovery	
						6		
						11		
8						15		
8.5	S-5	Med. dense, wet, brown, c-f SAND, some gravel - Well graded SAND (SW)	PID = 0 ppm			18	20" Recovery	
						12		
						11		
10						12		
Modified MRK Form 55 URSGWC Federal Services Log prepared			PROJECT Stratford Army Engine Plant Remedial Investigation Project No. R98104			HOLE No. WC2-5S		

HTW DRILLING LOG						HOLE No. WC2-5S	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 2 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
10.5	5-5	END OF BORING				16	
12							
14							
15							
16							
17							
18							
20							
22							
24							
25							
26							

BORING LOG										HOLE No. WC2-6I	
1. COMPANY NAME URSGWC Federal Services				2. DRILLING SUBCONTRACTOR Connecticut Test Borings				SHEET 1		OF 4 SHEETS	
3. PROJECT Stratford Army Engine Plant Remedial Investigation				4. LOCATION Stratford, Connecticut							
5. NAME OF DRILLER Joseph Yarrow				6. MANUFACTURER'S DESIGNATION OF DRILL Mobile B53							
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD, split spoon		8. HOLE LOCATION South Eastern Section of Site(east of tank farm pad next to the birm)							
		4 1/4" ID, 5' augers									
				9. SURFACE ELEVATION 6.96 feet							
				10. DATE STARTED 10/26/99				11. DATE COMPLETED 10/27/99			
12. OVERBURDEN THICKNESS > 52 feet				15. DEPTH GROUNDWATER ENCOUNTERED 4.6 (1320hrs on 10/26/99) feet							
13. DEPTH DRILLED INTO ROCK 0				16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT 5.6 (1430hrs on 10/27/99)							
14. TOTAL DEPTH OF HOLE 52 feet				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)							
18. GEOTECHNICAL SAMPLES Yes		DISTURBED X		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES none					
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC		SEMI-VOCs		METALS		OTHER (SPECIFY)		21. TOTAL CORE RECOVERY N/A	
		no		no		no		no			
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		23. NAME OF INSPECTOR Steve G. Vallianos			
		yes		X							
DEPTH (FEET) <i>a</i>	SMPL. INT. <i>b</i>	DESCRIPTION OF MATERIALS <i>c</i>		FIELD SCREENING RESULTS <i>d</i>		GEOTECH SAMPLE OR CORE BOX No. <i>e</i>		ANALYTICAL SAMPLE No. <i>f</i>		BLOW COUNTS <i>g</i>	REMARKS <i>h</i>
		Asphalt									Drilled through one foot of asphalt.
2	S1	M. dense, moist, brown, m-f SAND, trace gravel (SW)		PID = 0.0 ppm 15" Recovery						8	Installed 4" I.D. Casing
		FILL LAYER								12	
4	S2	Same as S1		PID = 0.0 ppm 6" Recovery						10	
										12	
6	S3	M. dense, wet, Black(oil stained), m-f SAND, trace gravel, petroleum-like odors, shean on water (SP)		Hnu malfunctioning 6" Recovery						12	Petroleum-like odors and shean on water is evident.
		FILL LAYER								9	
8	S4A	Loose, black-grey (oil stained), wet, m-f SAND, trace gravel, petroleum-like odors shean on water (SP)		PID = 200 ppm 20" Recovery						8	Petroleum-like odors and shean on water is evident.
		FILL LAYER		PID = 150 ppm						9	
10	S4B	Soft, black-grey, ORGANIC SILT (OH)		PID = 18 ppm						4	
		ESTUARINE SILT LAYER								6	
	S5	Dense, grey, m-f SAND, little silt, trace f. gravel, fuel-like odors (SM)		PID = 0.0 ppm 10" Recovery						6	Petroleum like odors are evident.
		FILL LAYER								8	
										3	
										3	
										2	
										2	
										21	
										23	
Modified MRK Form 55 URSGWC Federal Services Log prepared				PROJECT Stratford Army Engine Plant Remedial Investigation Project No. R98104				HOLE No. WC2-6I			

HTW DRILLING LOG						HOLE No. WC2-6I	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET OF 2 4 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	S-5					20	
						21	
12							
14							
15							
16	S-6	Dense, lt. grey, f-c SAND, trace f. gravel, slight fuel odor (SW) FILL LAYER	PID = 0.0 ppm 20" Recovery			8	
						11	sands getting darker ↓
						28	
17						48	
18							
20							
	S-7	Dense, olive-grey, m-f micaceous SAND, trace silt (SP) FILL LAYER	PID = 0.0 ppm 15" Recovery			15	sands are getting finer ↓
						20	
22						24	
						25	
24							
25							
	S-8	Same as S-7	PID = 0.0 ppm 18" Recovery			10	sands becoming darker @ 26.7'. ↓
26						15	

HTW DRILLING LOG						HOLE No. WC2-6I	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET OF 3 4 SHEETS	
DEPTH a	SAMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27	S-8					19	
						32	
28		Dense, brown-grey, m-f micaceous SAND, trace gravel (SP) FILL LAYER	PID = 0.0 ppm 17" Recovery				
30							
	S-9					8	
		16					
		24					
32		33					
		V. dense, tan, m-f micaceous SAND (SP) FILL LAYER	PID = 0.0 ppm 15" Recovery				
34							
	S-10					13	
35							
		26					
36		33					
		M. dense, tan, m-f micaceous SAND, trace gravel (SP) FILL LAYER	PID = 0.0 ppm 24" Recovery			35	
37							
38							
40							
		M. dense, tan, m-f micaceous SAND, trace gravel (SP) FILL LAYER	PID = 0.0 ppm 24" Recovery			11	
	S-11					10	
						12	
42						24	

Modified MRK Form 55
 URSGWC Federal Services
 Log prepared 10/27/99

PROJECT
 Stratford Army Engine Plant Remedial Investigation
 Project No. R98104

HOLE No.
 WC2-6I

HTW DRILLING LOG						HOLE No. WC2-6I	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET 4 OF 4 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
44	S-12	M. dense, brown, m-f SAND (SP) FILL LAYER	PID = 0.0 ppm 15" Recovery			3	
45						7	
46						17	
47						25	
48							
50	S-13A	V. dense, brown, f-c SAND, trace f. gravel (SP) GLACIAL DEPOSITS	PID = 0.0 ppm 12" Recovery (for whole spoon)			13	
						51	
	S-13B	V. dense, green-brown, f-c SAND, little weathered gravel (GP) GLACIAL DEPOSITS	(for whole spoon)			64	
52						72	
		END OF BORING AT 52' BELOW GROUND SURFACE.					
54							
55							
56							
57							
58							

BORING LOG										HOLE No. WC3-1D			
1. COMPANY NAME URSGWC Federal Services				2. DRILLING SUBCONTRACTOR Connecticut Test Borings				SHEET 1		OF 6 SHEETS			
3. PROJECT Stratford Army Engine Plant Remedial Investigation				4. LOCATION Stratford, Connecticut									
5. NAME OF DRILLER Joseph Yarrow				6. MANUFACTURER'S DESIGNATION OF DRILL Mobile B53									
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD, split spoon		8. HOLE LOCATION Southern Section of West Parking lot				9. SURFACE ELEVATION 6.28'		10. DATE STARTED 11/1/99		11. DATE COMPLETED 11/2/99	
		4 1/4" ID, 5' augers											
12. OVERBURDEN THICKNESS 87 feet				15. DEPTH GROUNDWATER ENCOUNTERED 3.5 feet below ground surface feet									
13. DEPTH DRILLED INTO ROCK 0				16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT 4.9' bgs - 16 hours									
14. TOTAL DEPTH OF HOLE 87 feet				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)									
18. GEOTECHNICAL SAMPLES Yes		DISTURBED X		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES none							
20. SAMPLES FOR CHEMICAL ANALYSIS NA		VOC		SEMI-VOCs		METALS		OTHER (SPECIFY)		21. TOTAL CORE RECOVERY n/a			
		no		no		no		no					
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		23. NAME OF INSPECTOR Steve G. Vallianos					
		yes		X									
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c		FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e		ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h				
		Asphalt							Drilled through one foot of asphalt.				
2	51	FILL LAYER		PID = 1.6 ppm 16" Recovery				14 12 7 7					
4	52	M. dense, wet, grey-brown, f-c SAND, little gravel (SP) W.T. GLACIAL DEPOSITS LAYER		PID = 87 ppm 14" Recovery				12 12 15 39	Solvent odors are evident				
6	53	Dense, wet, grey-brown, f-c SAND, little gravel (SP) GLACIAL DEPOSITS LAYER		PID = 100 ppm 10" Recovery				11 20 27 23	Solvent odors are evident				
8	54	Dense, wet, grey-brown, m-f SAND, trace f. gravel (SP) GLACIAL DEPOSITS LAYER		PID = 59 ppm 24" Recovery				23 18 18 19	Solvent odors are evident				
10								4 5					
Modified MRK Form 55 URSGWC Federal Services Log prepared				PROJECT Stratford Army Engine Plant Remedial Investigation Project No. R98104				HOLE No. WC3-1D					

HTW DRILLING LOG						HOLE No. WC3-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET OF 2 6 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
12	S-5	M. dense, wet, grey-brown, c-f SAND, trace f. gravel (SP) GLACIAL DEPOSITS LAYER	PID = 3.0 ppm 12" Recovery			7 12 14 23	Solvent odors are evident
14							
15							
16	S-6	Dense, wet, red-brown, f-c SAND, trace little gravel (SP) GLACIAL DEPOSITS LAYER	PID = 3.5 ppm 11" Recovery			12 23 30 33	
17							
18							
20							
22	S-7	Hard, tan, SILT and f. SAND (ML) GLACIAL DEPOSITS LAYER	PID = 3.4 ppm 13" Recovery			20 30 38 72	
24							
25							
26	S-8	V. dense, tan, f. SAND and SILT (ML) GLACIAL DEPOSITS LAYER	PID = 3.5 ppm 18" Recovery			29 37	

HTW DRILLING LOG						HOLE No. WC3-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET OF 3 6 SHEETS	
DEPTH a	SAMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27	S-8					60	
						65	
28							
30							
	S-8	V. dense, f. micaceous SAND, trace silt (SP) GLACIAL DEPOSITS LAYER	PID = 3.0 ppm 11" Recovery			73 100/5"	Strong odors are evident
32							
34							
35							
	S-10	V. dense, tan, f. micaceous SAND, trace silt (SP) GLACIAL DEPOSITS LAYER	PID = 2.0 ppm 20" Recovery			38 46 81 86	Strong odors are evident
36							
37							
38							
40							
	S-11	M. dense, grey-brown, f. micaceous SAND, little silt (SP) GLACIAL DEPOSITS LAYER	hnu/pid malfunction 20" Recovery			8 11 13 15	Strong odors are evident
42							

HTW DRILLING LOG						HOLE No. WC3-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET OF 4 6 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
44							
45							
46	S-12	V. dense, grey-brown, f. micaceous SAND, little silt (SP) GLACIAL DEPOSITS LAYER	hnu/pid malfunction 20" Recovery			13 19	Strong odors are evident
47						34 40	
48							
50		Same as S-12	hnu/pid malfunction 24" Recovery				
52	S-13					16 26 35 43	Strong odors are evident
54							
55							
56	S-14	Dense, grey-brown, SILT and f. SAND (ML) GLACIAL DEPOSITS LAYER	hnu/pid malfunction 18" Recovery 11/01/99			12 13 21 37	Strong odors are evident Concluded drilling activities for 11/01/99
57							
58							

HTW DRILLING LOG						HOLE No. WC3-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET OF 5 6 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
60	S-15	Same as S-14	hnu/pid malfunction 24" Recovery 11/01/99				Strong odors are evident
						18	
						21	
						28	
62						43	
64	S-16	Dense, grey-brown, f. micaceous SAND, little silt (SP) GLACIAL DEPOSITS LAYER	hnu/pid malfunction 20" Recovery				Strong odors are evident
						11	
						7	
						24	
66						18	
67							
68	S-17	Same as S-16	hnu/pid malfunction 18" Recovery				Strong odors are evident
						11	
						12	
						19	
70						26	
72							
74							

HTW DRILLING LOG						HOLE No. WC3-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET OF 6 6 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
75	S-18	V. stiff, grey-brown, SILT and f. SAND, lenses of thin red clay (ML) GLACIAL DEPOSITS LAYER	hnu/pid malfunction 10" Recovery			13	Strong odors are evident Tip of split-spoon contains orange-brown f.m. SAND (micaceous)
76						9	
77						17	
78						44	
80	S-19	V. dense, grey-brown, f. SAND, some f. gravel, little silt (SP) GLACIAL DEPOSITS LAYER	hnu/pid malfunction 15" Recovery			18	Strong odors are evident
82						23	
84						25	
85						41	
86	S-20	Same as S-19	hnu/pid malfunction 10" Recovery			68	Strong odors are evident
88						69	
						47	
						45	
90		END OF BORING					

BORING LOG										HOLE No. WC3-11	
1. COMPANY NAME URSGWC Federal Services				2. DRILLING SUBCONTRACTOR Connecticut Test Borings				SHEET 1 OF 1 SHEET			
3. PROJECT Stratford Army Engine Plant Remedial Investigation				4. LOCATION Stratford, Connecticut							
5. NAME OF DRILLER Joseph Yarrow				6. MANUFACTURER'S DESIGNATION OF DRILL Mobile B53							
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD, split spoon		8. HOLE LOCATION Southern Section of West Parking lot				9. SURFACE ELEVATION 6.28'			
		4 1/4" ID, 5' augers									
				10. DATE STARTED 11/3/99		11. DATE COMPLETED 11/3/99					
12. OVERBURDEN THICKNESS >40'				15. DEPTH GROUNDWATER ENCOUNTERED Use WC3-1D as reference							
13. DEPTH DRILLED INTO ROCK 0				16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT							
14. TOTAL DEPTH OF HOLE 40 feet				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)							
18. GEOTECHNICAL SAMPLES No		DISTURBED none		UNDISTURBED none		19. TOTAL NUMBER OF CORE BOXES none					
20. SAMPLES FOR CHEMICAL ANALYSIS NA		VOC	SEMI-VOCs	METALS	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY n/a					
		no	no	no	no						
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. NAME OF INSPECTOR Steve G. Vallianos						
		yes	X								
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c		FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e		ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h		
34									Driller augered down directly to 40 ft. The split spoons were not used during the advancing of the hole. For a characterization of the soil, please refer to WC3-1D.		
36											
38											
40											
42		END OF BORING									

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URSGWC Federal Services
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PROJECT
Stratford Army Engine Plant Remedial Investigation
Project No. R98104

HOLE No.
WC3-11

BORING LOG						HOLE No. WC3-2D	
1. COMPANY NAME URSGWC Federal Services			2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 5 SHEETS	
3. PROJECT Stratford Army Engine Plant Remedial Investigation			4. LOCATION Stratford, Connecticut				
5. NAME OF DRILLER Joseph Yarrow			6. MANUFACTURER'S DESIGNATION OF DRILL Mobile B53				
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD, split spoon		8. HOLE LOCATION Southern Section of West Parking lot			
		4 1/4" ID, 5' augers					
				9. SURFACE ELEVATION 6.68'			
				10. DATE STARTED 10/28/99		11. DATE COMPLETED 10/29/99	
12. OVERBURDEN THICKNESS 63 feet			15. DEPTH GROUNDWATER ENCOUNTERED 4.0 feet below ground surface feet				
13. DEPTH DRILLED INTO ROCK 0			16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT				
14. TOTAL DEPTH OF HOLE 63 feet			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)				
18. GEOTECHNICAL SAMPLES Yes		DISTURBED X		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES none	
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC		SEMI-VOCs		METALS	
		no		no		no	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)	
		yes		X			
21. TOTAL CORE RECOVERY N/A		23. NAME OF INSPECTOR Steve G. Vallianos					
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		Asphalt					Drilled through one foot of asphalt.
2	51	M. dense, moist, red-brown, f. SAND, little silt (SP) FILL LAYER	PID = 0.0 ppm 12" Recovery			8 10	Installed 4" I.D. Casing
		M. dense, wet, brown, f-c SAND, trace gravel (SP) FILL LAYER	PID = 0.0 ppm 15" Recovery			9 9	
4	52	W.T.				6 9	
		No Recovery - No sample obtained				17 32	
6	53					40 42	
		V. dense, wet, brown, f-c SAND, trace f. gravel (SW) GLACIAL DEPOSITS	PID = 0.0 ppm 20" Recovery			48 50	
8	54					21 31	
						38 35	
10							
Modified MRK Form 55 URSGWC Federal Services Log prepared			PROJECT Stratford Army Engine Plant Remedial Investigation Project No. R98104			HOLE No. WC3-2D	

HTW DRILLING LOG						HOLE No. WC3-2D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET OF 2 5 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
12	S-5	V. dense, wet, brown, f-c SAND, trace f. gravel (SW) GLACIAL DEPOSITS	PID = 0.0 ppm 10" Recovery			7	
						24	
						30	
						34	
14							
15							
16	S-6	Dense, wet, grey, f-c SAND, trace f. gravel (SP) GLACIAL DEPOSITS	PID = 0.0 ppm 15" Recovery			9	
18							
22							
17						28	
18							
20							
22	S-7	Same as S-6 GLACIAL DEPOSITS	PID = 0.0 ppm 16" Recovery			9	
						19	
						22	
22		Brown, SANDY SILT (ML)				25	
24							
25							
26	S-8	V. dense, tan, micaceous f. SAND, trace silt (SP) GLACIAL DEPOSITS	PID = 0.0 ppm 20" Recovery			47	
						72	

HTW DRILLING LOG						HOLE No. WC3-2D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET 3 OF 5 SHEETS	
DEPTH a	SAMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27	S-8	Same as S-8	PID = 0.0 ppm 24" Recovery			80	
						100	
28							
30							
	S-9	Same as S-8	PID = 0.0 ppm 16" Recovery			24	
						29	
32						31	
						50	
34							
35		Same as S-8	PID = 0.0 ppm 16" Recovery			25	
						21	
36						22	
						27	
38							
40		Same as S-8	PID = 0.0 ppm 21" Recovery			13	
						10	
						15	
42						20	

HTW DRILLING LOG						HOLE No. WC3-2D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET OF 4 5 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
44							
45							
46	S-12	Dense, tan, f. SAND, trace red silt lenses (SP) GLACIAL DEPOSITS	PID = 0.0 ppm 24" Recovery			16 24	
47						22 39	
48							
50							
51	S-13	V. dense, tan, f. SAND, little silt (SM) GLACIAL DEPOSITS	PID = 0.0 ppm 20" Recovery			7 22	
52						31 37	
54							
55							
56	S-14	V. dense, brown, m-f SAND, trace silt (SP) GLACIAL DEPOSITS	PID = 0.0 ppm 17" Recovery			49 84	
57						100/5"	
58							

HTW DRILLING LOG						HOLE No. WC3-2D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Steve G. Vallianos			SHEET 5 OF 5 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
60	S-15A	V. dense, brown, m-f SAND, trace silt (SP) GLACIAL DEPOSITS	PID = 0.0 ppm 22" Recovery				
						34	
	S-15B	Hard, grey, SANDY SILT (ML) GLACIAL DEPOSITS				64	
62						78	
						100/4"	
64		END OF BORING					
65							
66							
67							
68							
70							
72							
74							

BORING LOG										HOLE No. WC3-2I			
1. COMPANY NAME URSGWC Federal Services				2. DRILLING SUBCONTRACTOR Connecticut Test Borings				SHEET 1 OF 1 SHEET					
3. PROJECT Stratford Army Engine Plant Remedial Investigation						4. LOCATION Stratford, Connecticut							
5. NAME OF DRILLER Joseph Yarrow						6. MANUFACTURER'S DESIGNATION OF DRILL Mobile B53							
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT			2" OD, split spoon			8. HOLE LOCATION Southern Section of West Parking lot							
			4 1/4" ID, 5' augers										
						9. SURFACE ELEVATION 6.28 feet							
						10. DATE STARTED 10/29/99				11. DATE COMPLETED 10/29/99			
12. OVERBURDEN THICKNESS >40'						15. DEPTH GROUNDWATER ENCOUNTERED Use WC3-2D as reference							
13. DEPTH DRILLED INTO ROCK 0						16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT							
14. TOTAL DEPTH OF HOLE 40 feet						17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)							
18. GEOTECHNICAL SAMPLES No				DISTURBED none		UNDISTURBED none		19. TOTAL NUMBER OF CORE BOXES none					
20. SAMPLES FOR CHEMICAL ANALYSIS				VOC		SEMI-VOCs		METALS		OTHER (SPECIFY)		21. TOTAL CORE RECOVERY n/a	
				no		no		no		no			
22. DISPOSITION OF HOLE				BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		23. NAME OF INSPECTOR Steve G. Vallianos			
				yes		X							
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c				FIELD SCREENING RESULTS d		GEOTECH SAMPLE OR CORE BOX No. e		ANALYTICAL SAMPLE No. f		BLOW COUNTS g	REMARKS h
34													Driller augered down directly to 40 ft. The split spoons were not used during the advancing of the hole. For a characterization of the soil, please refer to WC3-2D.
36													
38													
40													
42		END OF BORING											

Modified MRK Form 55
URSGWC Federal Services
Log prepared 11/2/99

PROJECT
Stratford Army Engine Plant Remedial Investigation
Project No. R98104

HOLE No.
WC3-2I

BORING LOG						HOLE No. WC5-1D	
1. COMPANY NAME URSGWC Federal Services			2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 6 SHEETS	
3. PROJECT Stratford Army Engine Plant Remedial Investigation			4. LOCATION Stratford, Connecticut				
5. NAME OF DRILLER Steve Butrej			6. MANUFACTURER'S DESIGNATION OF DRILL CME 85 Truck Mounted Drill Rig				
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD, split spoon		8. HOLE LOCATION 10' West from the SW Corner of Main Building B-2, northern section of Area No. 3.			
		4 1/4" ID, 5' augers					
		Core Barrel		9. SURFACE ELEVATION + 7.75 feet			
				10. DATE STARTED 4/13/99			
				11. DATE COMPLETED 4/14/99			
12. OVERBURDEN THICKNESS 85 feet			15. DEPTH GROUNDWATER ENCOUNTERED 5 feet				
13. DEPTH DRILLED INTO ROCK 5			16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT 5.5 ft bgs				
14. TOTAL DEPTH OF HOLE 90 feet			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)				
18. GEOTECHNICAL SAMPLES		DISTURBED X		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES 1	
20. SAMPLES FOR CHEMICAL ANALYSIS Samples taken from S-2 and S-6 for TOC and CEC Analysis.		VOC		SEMI-VOCs		21. TOTAL CORE RECOVERY 55"	
						TOC, CEC	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		23. NAME OF INSPECTOR Ricardo Colón	
				X			
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
2	S-1	Loose, moist, brown, f SAND, trace gravel, trace organic debris (dead roots) (SP) FILL LAYER	PID = 0 ppm 15:05			1	18" Recovery
						3	The area is unpaved
						8	
						7	
4	S-2	Soft, moist, brown, sandy SILT (SM) FILL LAYER	PID = 0 ppm 15:10		WC5-1D/S-2 Sampled for TOC & CEC Analysis	4	20" Recovery
						4	
						2	
						2	
6	S-3	Loose, wet, lt. brown, m-f SAND, trace c. sand, trace micaceous sand Poorly Graded SANDS (SP) GLACIAL DEPOSITS W.T.	PID = 0 ppm 15:15			2	16" Recovery
						3	
						4	
						6	
8	S-4	Same as S3	PID = 0 ppm 15:20			3	24" Recovery
						7	
						8	
						8	
10	S-5	Same as S3	PID = 0 ppm 15:30			2	12" Recovery
						4	
						4	
						5	
Modified MRK Form 55 URSGWC Federal Services Log prepared			PROJECT Stratford Army Engine Plant Remedial Investigation Project No. R98104			HOLE No. WC5-1D	

HTW DRILLING LOG						HOLE No. WC5-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 2 OF 6 SHEETS	
DEPTH a	SAMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
12							
14							
15							
16	S-6	Loose, wet, lt. brown, m-f SAND, trace micaceous sand (SP)	PID = 0 ppm 15:40		WC5-1D/S-6 for TOC and CEC Analysis	2	12" Recovery
17						3	
18						4	
19						6	
20							
22	S-7	Same as S6	PID = 0 ppm 15:50			2	16" Recovery
23						3	
24						6	
25						10	
26	S-8	Loose to med. dense, wet, lt. brown, m-f SAND (SW)	PID = 0 ppm 16:00				
						2	18" Recovery
						5	

HTW DRILLING LOG						HOLE No. WC5-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 3 OF 6 SHEETS	
DEPTH a	SAMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27	S-8	Loose to med. dense, wet, brown to lt. brown, f-c SAND, some f. gravel Well Graded SANDS (SW)	PID = 0 ppm 16:15			13	
						17	
28							
30							
32	S-9					3	8" Recovery
					3		
				12			
34						27	
35							
36	S-10		N/A			3	No Recovery
					6		
37					6		
38						8	
40							
42	S-11	Loose, wet, lt. brown, m-f SAND Poorly graded SAND (SP)	PID = 0 ppm 4/14/99 9:05			3	17" Recovery
					5		
					6		
					8		

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PROJECT
Stratford Army Engine Plant Remedial Investigation
 Project No. R98104

HOLE No.
WC5-1D

HTW DRILLING LOG						HOLE No. WC5-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 4 6 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
44	S-12	Loose, wet, greenish-gray, f SAND, trace silt - Poorly Graded Sands (SP)	PID = 0 ppm 9:20				17" Recovery
45						3	
46						5	
47						7	
48						9	
50	S-13	Loose, wet, greenish gray, f SAND, trace silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm 9:35				13" Recovery
51						3	
52						3	
53						4	
54						7	
55	S-14	Loose, wet, olive-gray, m-f SAND, trace silt - Poorly Graded SANDS (SP)	PID = 0 ppm 9:50				20" Recovery
56						3	
57						5	
58						7	

HTW DRILLING LOG						HOLE No. WC5-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 5 6 SHEETS	
DEPTH a	SAMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
60	S-15	Loose, wet, olive-gray, m-f SAND, trace silt - Poorly Graded SANDS (SP)	PID = 0 ppm 10:00				12" Recovery
						3	
						4	
						7	
62						7	
64							
65	S-16	Loose, olive-gray, m-f SAND, trace silt Poorly Graded SANDS (SP)	PID = 0 ppm 10:10				22" Recovery
						3	
						3	
						5	
66						8	
67							
68							
70	S-17	Loose, wet, olive-gray, m-f SAND, some silt - Poorly Graded SAND (SP)	PID = 0 ppm 10:20				20" Recovery
						4	
						6	
						6	
72						10	
74							

HTW DRILLING LOG						HOLE No. WC5-1D	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 6 6 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
75	S-18	Loose, wet, greenish-gray, f SAND Poorly Graded SANDS (SP)	PID = 0 ppm 10:40			2	20" Recovery
76						3	
77						3	
78						3	
80	S-19	Loose, greenish-gray, f SAND, Poorly Graded SANDS (SP) GLACIAL DEPOSITS	PID = 0 ppm 10:50			3	18" Recovery
82						9	
84						4	
85						6	
86	<p>CORE RUN #1</p> <p>Phyllite, gray, fine-grained, thickly-bedded, strong (throughout core)</p> <p>Legend</p> <p>N - naturally occurring fracture M - mechanical break/fracture (occurred during coring) Fo - Natural Fracture along Foliation</p> <p>Note</p> <p>All naturally occurring fractures, except for one labelled Fo, are caused by faulting.</p>	<p>Core WC5-1D (Run #1)</p> <p>Penetration = 60 inches</p> <p>Recovery = 57 inches</p> <p>Strength = Strong</p> <p>Hardness = Mod. Hard</p> <p>Sum of lengths intact = 51"</p> <p>RQD = Sum of L intact / Pen. = 51/60 = 0.85</p> <p>Recovery % = Recov./Pen = 57/60x100% = 95%</p>	10 min	Spoon hit refusal at 85' 2"			
88			8 min				
			5 min				
			6 min				
90			5 min				
		END OF BORING					Penetration to 90' 2"

BORING LOG							HOLE No. WC5-1S			
1. COMPANY NAME URSGWC Federal Services			2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 2 SHEETS				
3. PROJECT Stratford Army Engine Plant Remedial Investigation				4. LOCATION Stratford, Connecticut						
5. NAME OF DRILLER Steve Butrej				6. MANUFACTURER'S DESIGNATION OF DRILL CME 75 Truck Mounted Drill Log						
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD split spoon		8. HOLE LOCATION About 250' SW-W from N corner of building, B-2 (Area No. 5).						
		4 1/4" ID, 5-foot augers								
				9. SURFACE ELEVATION + 4.89 feet						
				10. DATE STARTED 3/22/99			11. DATE COMPLETED 3/22/99			
12. OVERBURDEN THICKNESS > 11.5 feet				15. DEPTH GROUNDWATER ENCOUNTERED 2 feet below ground surface						
13. DEPTH DRILLED INTO ROCK 0				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 2.3 ft bgs						
14. TOTAL DEPTH OF HOLE 11.5 feet				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)						
18. GEOTECHNICAL SAMPLES N/A		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A				
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC		SEMI-VOCs		METALS		OTHER (SPECIFY)		
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		23. NAME OF INSPECTOR Ricardo Colón		
				X						
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c		FIELD SCREENING RESULTS d		GEOTECH SAMPLE OR CORE BOX No. e		ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
0.5	S-1 ▼ W.T.	Asphalt (3") Med. dense, dk. gray, moist, gravelly, m-f SAND, Poorly Graded SAND (SP) FILL LAYER		PID = 0 ppm 12:30					13	Little Recovery
2										
2.5	S-2	Med. dense, wet, brown, m-f SAND - Poorly graded SAND (SP) GLACIAL DEPOSITS		PID = 0 ppm 12:35					9	2" Recovery
4										
4.5	S-3	Med. dense, wet, brown, m-f SAND - Poorly graded SAND (SP)		PID = 0 ppm 12:40					9	10" Recovery
6										
6.5	S-4	Becoming coarser; tr. f. gravel to c. sand noted		PID = 0 ppm 13:05					6	Recovery information is Not Available
8										
8.5	S-5	Med. dense, wet, brown, c-f SAND - trace f. gravel - Poorly graded SAND (SP) GLACIAL DEPOSITS		PID = 0 ppm 13:10					10	Recovery information is Not Available
10										

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 URSGWC Federal Services
 Log prepared

PROJECT
Stratford Army Engine Plant Remedial Investigation
 Project No. R98104

HOLE No.
WC5-1S

7/25/02

HTW DRILLING LOG						HOLE No. WC5-1S	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET 2 OF 2 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
10.5	SS					15	
11.5							
12		END OF BORING					
14							
15							
16							
17							
18							
20							
22							
24							
25							
26							
Modified MRK Form 55 URSGWC Federal Services Log prepared			PROJECT Stratford Army Engine Plant Remedial Investigation Project No. R98104			HOLE No. WC5-1S	

7/25/02

BORING LOG										HOLE No. WC5-2I		
1. COMPANY NAME URSGWC Federal Services					2. DRILLING SUBCONTRACTOR Connecticut Test Borings					SHEET 1 OF 1 SHEET		
3. PROJECT Stratford Army Engine Plant Remedial Investigation					4. LOCATION Stratford, Connecticut							
5. NAME OF DRILLER Steve Butrej					6. MANUFACTURER'S DESIGNATION OF DRILL CME 75 truck-mounted rig							
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT			2" OD split spoon			8. HOLE LOCATION Near SE corner of B-2 (in northern section of Area No. 3).						
			4 1/4" ID, 5-foot augers									
			9. SURFACE ELEVATION + 7.70 feet						11. DATE COMPLETED 4/16/99			
			10. DATE STARTED 4/16/99									
12. OVERBURDEN THICKNESS > 40 feet					15. DEPTH GROUNDWATER ENCOUNTERED 5 feet							
13. DEPTH DRILLED INTO ROCK 0					16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT 5 ft bgs							
14. TOTAL DEPTH OF HOLE 40 feet					17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)							
18. GEOTECHNICAL SAMPLES N/A			DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A					
20. SAMPLES FOR CHEMICAL ANALYSIS N/A			VOC		SEMI-VOCs		METALS		OTHER (SPECIFY)		21. TOTAL CORE RECOVERY N/A	
22. DISPOSITION OF HOLE			BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		23. NAME OF INSPECTOR Ricardo Colón			
					X							
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c			FIELD SCREENING RESULTS d		GEOTECH SAMPLE OR CORE BOX No. e		ANALYTICAL SAMPLE No. f		BLOW COUNTS g	REMARKS h
50												Driller augered 55 ft. bgs. Split-spoons were not used while advancing the borehole. For a characterization of the soil, please refer to WC5-1D.
52												
54												
55												
56		END OF BORING										
58												

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 URSGWC Federal Services
 Log prepared

PROJECT
Stratford Army Engine Plant Remedial Investigation
 Project No. R98104

HOLE No.
WC5-2I

7/25/02

BORING LOG						HOLE No. WC5-2S		
1. COMPANY NAME URSGWC Federal Services			2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 2 SHEETS		
3. PROJECT Stratford Army Engine Plant Remedial Investigation				4. LOCATION Stratford, Connecticut				
5. NAME OF DRILLER Steve Butrej				6. MANUFACTURER'S DESIGNATION OF DRILL CME 75 Truck Mounted Drill Rig				
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD split spoon		8. HOLE LOCATION SW section Area No. 5, 100' NE of the int. of Access Rd. & Main St.				
		4 1/4" ID, 5-foot augers		9. SURFACE ELEVATION + 8.53 feet				
				10. DATE STARTED 3/23/99				
				11. DATE COMPLETED 3/23/99				
12. OVERBURDEN THICKNESS > 12 feet				15. DEPTH GROUNDWATER ENCOUNTERED 5 feet below ground surface				
13. DEPTH DRILLED INTO ROCK 0				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 5.9 ft bgs				
14. TOTAL DEPTH OF HOLE 12 feet				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)				
18. GEOTECHNICAL SAMPLES N/A		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A		
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC		SEMI-VOCs		21. TOTAL CORE RECOVERY		
						N/A		
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		23. NAME OF INSPECTOR		
				X		Ricardo Colón		
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c		FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
0.5	S-1	Soft, brown, low plastic, sandy CLAY -Sandy lean CLAY (CL) FILL LAYER		PID = 0 ppm 13:40			2	24" Recovery
2	S-2			PID = 0 ppm 13:45			3	24" Recovery
2.5	S-3	Loose, brown, m-f SAND - Poorly graded SAND (SP) W.T. ▼		PID = 0 ppm 13:55			1	20" Recovery
4	S-4	Becoming coarser; some f. gravel to c.		PID = 0 ppm 14:00			2	24" Recovery NA - blow counts are not available
4.5	S-5	Becoming coarser; some f. gravel to c. sand FILL LAYER		PID = 0 ppm			6	24" Recovery NA - blow counts are not available
6							8	
6.5							9	
8							NA	
8.5							NA	
10							NA	

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 URSGWC Federal Services
 Log prepared

PROJECT
Stratford Army Engine Plant Remedial Investigation
 Project No. R98104

HOLE No.
WC5-2S

HTW DRILLING LOG						HOLE No. WC5-2S	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 2 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
10.5	SS					NA	
12		END OF BORING					
14							
15							
16							
17							
18							
20							
22							
24							
25							
26							

BORING LOG						HOLE No. WC5-3S	
1. COMPANY NAME URSGWC Federal Services			2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 1 SHEET	
3. PROJECT Stratford Army Engine Plant Remedial Investigation			4. LOCATION Stratford, Connecticut				
5. NAME OF DRILLER Steve Butrej			6. MANUFACTURER'S DESIGNATION OF DRILL CME 75 truck-mounted drill rig				
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD split spoon		8. HOLE LOCATION Near SE corner of B-2 (in northern section of Area No. 3).			
		4 1/4" ID, 5-foot augers		9. SURFACE ELEVATION + 7.72 feet			
				10. DATE STARTED 4/15/99			
				11. DATE COMPLETED 4/16/99			
12. OVERBURDEN THICKNESS > 12 feet				15. DEPTH GROUNDWATER ENCOUNTERED 5.5 feet			
13. DEPTH DRILLED INTO ROCK 0				16. DEPTH TO WATER 24 HRS. AFTER WELL DEVELOPMENT 5.2 ft bgs			
14. TOTAL DEPTH OF HOLE 12 feet				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
18. GEOTECHNICAL SAMPLES N/A		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A	
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC		SEMI-VOCs		21. TOTAL CORE RECOVERY N/A	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		23. NAME OF INSPECTOR Ricardo Colón	
				X			
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
6	W.T. ▼						Driller augered down directly to 12 ft. The split spoons were not used during the advancing of the hole. For a characterization of the soil, please refer to WC5-1D.
8							
10							
12							
14		END OF BORING					

Modified MRK Form 55
 URSGWC Federal Services
 Log prepared

7/25/02

PROJECT
Stratford Army Engine Plant Remedial Investigation
 Project No. R98104

HOLE No. **WC5-3S**

BORING LOG						HOLE No. WC6-11		
1. COMPANY NAME URSGWC Federal Services			2. DRILLING SUBCONTRACTOR Connecticut Test Borings			SHEET 1 OF 4 SHEETS		
3. PROJECT Stratford Army Engine Plant Remedial Investigation			4. LOCATION Stratford, Connecticut					
5. NAME OF DRILLER Steve Butrej			6. MANUFACTURER'S DESIGNATION OF DRILL CME 75 Truck Mounted Drill Rig					
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" OD split spoon		8. HOLE LOCATION In South Parking Lot (Area No. 6), west of the treatment plant.				
		4 1/4" ID, 5-foot augers						
				9. SURFACE ELEVATION + 6.09 feet				
		10. DATE STARTED 3/24/99			11. DATE COMPLETED 3/25/99			
12. OVERBURDEN THICKNESS < 50 feet				15. DEPTH GROUNDWATER ENCOUNTERED 4 feet bgs				
13. DEPTH DRILLED INTO ROCK 0				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 4.2 ft bgs				
14. TOTAL DEPTH OF HOLE 50 feet				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)				
18. GEOTECHNICAL SAMPLES		DISTURBED X		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A		
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC		SEMI-VOCs		21. TOTAL CORE RECOVERY		
						N/A		
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		23. NAME OF INSPECTOR Ricardo Colón		
				X				
DEPTH (FEET) a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h	
0.5	S-1	Asphalt (3")	PID = 0 ppm 8:50			13	20" Recovery	
		Med. dense, moist, yellowish-orange, f SAND, trace c. SAND (SP)						9
2		FILL LAYER						11
								11
2.5	S-2	Loose, wet, olive-gray, c-f SAND, some f. gravel - Well Graded SAND (SW)	PID = 0 ppm 8:55			10	12" Recovery	
								7
4		W.T.						8
								7
4.5	S-3	Loose, wet, olive-gray, c-f SAND, some f gravel - Well graded SAND (SW)	PID = 0 ppm 9:10			10	4" Recovery	
								7
6								8
								7
6.5	S-4	Loose, wet, olive-gray, m-c SAND, some f gravel - Poorly graded SAND (SP)	PID = 0 ppm 9:15			2	12" Recovery	
								3
8								3
								5
8.5	S-5	Loose, wet, greenish-gray, m-c SAND, some gravel - Poorly graded SAND (SP)	PID = 0 ppm 9:25			2	6" Recovery	
								4
10								5

Modified MRK Form 55
 URSGWC Federal Services
 Log prepared

PROJECT
Stratford Army Engine Plant Remedial Investigation
 Project No. R98104

HOLE No.
WC6-11

7/25/02

HTW DRILLING LOG						HOLE No. WC6-11	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 2 4 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
10.5	S-5					5	
12							
14							
15							
16	S-6	Loose, wet, grayish brown, c-f SAND, some f. gravel - Well graded SAND (SW)	PID = 0 ppm 9:45			2	8" Recovery
17						5	
18						6	
20						6	
22	S-7	Loose, wet, grayish brown, c-f SAND, some f. gravel - Well graded SAND (SW)	PID = 0 ppm 9:50			3	16" Recovery
24						6	
25						8	
26	S-8	Med. dense, moist, yellowish-brown, m-f SAND, some gravel- Poorly graded SAND (SP)	PID = 0 ppm 9:55			11	
		FILL LAYER				6	22" Recovery
						14	

HTW DRILLING LOG						HOLE No. WC6-11	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 3 4 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27	S-8					14	
						17	
28							
30							
	S-9	Med. dense, moist, Varved layers of Brown f. SAND (6")(SP); Silty f. GRAVEL (8") (GP); and Red, clayey GRAVEL (8") (GP) GLACIAL DEPOSITS	PID = 0 ppm 10:05			13	22" Recovery
						19	
32						27	
						24	
34							
35							
	S-10	Loose, gravelly, reddish f. SAND, some clay - Clayey SAND with gravel (SC)	PID = 0 ppm 10:30			4	24" Recovery
36						10	
	S-11	Med dense, moist, olive-gray, m-f SAND, trace c. sand - Poorly graded SAND (SP)				22	
37						22	
38							
40							
	S-12	Med. dense, moist, olive-gray, m-f SAND, trace f. gravel to c. sand - Poorly Graded SAND (SP)	PID = 0 ppm			7	6" Recovery
						11	
						11	
42						13	

HTW DRILLING LOG						HOLE No. WC6-11	
PROJECT Stratford Army Engine Plant Remedial Investigation			INSPECTOR Ricardo Colón			SHEET OF 4 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
44							
45							
46	S-12		PID = 0 ppm			7	No Recovery
47						4	Piece of gravel found inside the spoon
48						7	
49						7	
50	S-13	GLACIAL DEPOSITS				3	No Recovery
51						5	Spoon seems to be pushing gravel
52						6	
53						8	
54		END OF BORING					
55							
56							
57							
58							